

10/100 Ethernet CF Card™

CompactFlash and PC Card solutions for:

- *Pocket PC 2000/2002/2003*
- *Handheld PC 2000*
- *Handheld PC Pro and pen tablets based on Windows CE v2.11 or greater*

User's Guide



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Chapter 1 Introduction

Overview

Would you like to ActiveSync your mobile computer in the fastest and most convenient way possible? Do you need to back up or restore files in a flash? Then you need Socket's 10/100 Ethernet CF Card. It's the best solution for accessing hi-speed networks running up to 100 Mbps.

This Type I CompactFlash card's sleek design integrates the card and network connector into one durable unit. It is among the lowest in its class in power consumption. Socket's enhanced Windows CE drivers add even more convenience, allowing you to automatically launch ActiveSync or any other program, saving you time. You also have instant access to key network settings.



Note: For some Handheld PC Pros, the CompactFlash I/O slot only supports memory I/O and is not compatible with the 10/100 Ethernet CF Card. Only the PC Card slot supports CF+ I/O. If you have one of these computers, use a CompactFlash-to-PC Card adapter to insert the 10/100 Ethernet CF Card into the PC Card slot.

This *User's Guide* shows how to install and use the 10/100 Ethernet CF Card.

For software updates, please visit Socket's website at:
www.socketcom.com/product/ethernet_10100.asp

Package Contents

The 10/100 Ethernet CF Card package includes these items:

- A Socket 10/100 Ethernet CF Card (CompactFlash Type I)
- The *10/100 Ethernet Installation Disc*



CompactFlash-to-PC Card adapters are available separately.
Visit www.esend.com/socket.

Chapter 2 Setup

This chapter explains how to set up and use the 10/100 Ethernet CF Card on a Pocket PC 2000/2002/2003, HPC 2000 or Handheld PC Pro.

Installation and Usage Steps Summary

- STEP 1: Register your card.
- STEP 2: Complete the Network Information Form.
- STEP 3: Install the software.
- STEP 4: Enter network settings.
- STEP 5: Insert card and connect to LAN port.
- STEP 6: Use ActiveSync via a Network
- OPTIONAL: Use the Control Panel Applet



STEP 1: Register Your Card

Socket highly recommends that all customers register their Socket products. Registered users receive priority for technical support. Register your card online at www.socketcom.com/prodreg.

When you register your card, you can request a free Crossover Connection Kit. This kit enables you to create an instant Ethernet network without the hassle of a bulky AC-powered hub. For more information about the Crossover Connection kit, please see Appendix B: Two Node Networking.



Hubless network using Crossover Connection Kit

STEP 2: Complete the Network Information Form

Contact your office network administrator/MIS technician for the information below. For a text-only form that you can email to your network administrator/MIS technician, go to the *Docs* folder on the installation CD or online at: www.socketcom.com/support/support_ethernet.asp

Network Information Form

1. Does the network support DHCP (Dynamic Host Configuration Protocol)?
☐ **YES.** If *Yes*, then STOP. You do NOT need to answer Question 2.
☐ **NO.** If *No*, then answer Question 2. You may need only some of the IP addresses listed below.
2. Please specify any applicable IP addresses:
 - (a) Mobile Computer IP address: ____ . ____ . ____ . ____
 - (b) Subnet Mask: ____ . ____ . ____ . ____
 - (c) Default Gateway: ____ . ____ . ____ . ____
 - (d) Primary DNS: ____ . ____ . ____ . ____
 - (e) Secondary DNS: ____ . ____ . ____ . ____
 - (f) Primary WINS: ____ . ____ . ____ . ____
 - (g) Secondary WINS: ____ . ____ . ____ . ____

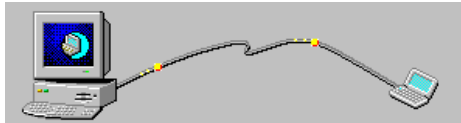
For remote ActiveSync only: If your server does NOT have WINS services enabled, you must use the IP address of your host computer instead of a Primary WINS address.

(h) Host computer IP address: ____ . ____ . ____ . ____

STEP 3: Install the Software

Follow these steps for software installation BEFORE inserting the 10/100 Ethernet CF Card:

1. Use your serial/Ethernet/USB cable or cradle to connect your mobile computer to a host PC.



2. In order to synchronize data, there must be a partnership between the mobile computer and host PC.
 - If you already established a partnership between the two computers, they should automatically connect and begin synchronizing.
 - If no partnership exists between the two computers, a screen will appear asking if you would like to set one up. Select **Yes** and click **Next>**. Follow the remaining screens on your host PC until the partnership has successfully been established.



Important! You must set up a partnership, or you will not be able to synchronize data between your mobile computer and host PC!

3. Insert the *Socket 10/100 Ethernet Installation Disc* into the host PC.



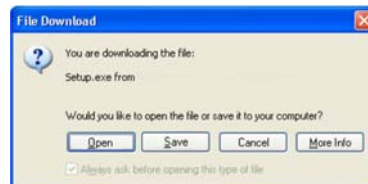
4. Use **My Computer** or **Windows Explorer** to access the CD drive. In the CD, click on **SETUP.EXE**.



5. Follow the instructions on your host PC screen to install the software for Windows CE.

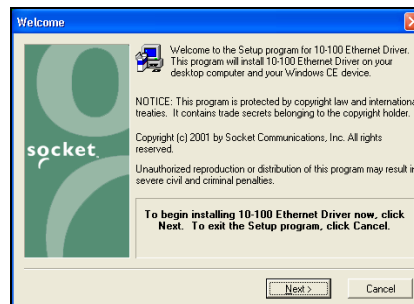


6. When the **File Download** screen appears, select the option that lets you **OPEN** (or run) the file. **DO NOT SAVE THE FILE!**



IMPORTANT!
YOU MUST OPEN
THE FILE!
DO NOT SAVE!

7. The installation wizard should begin. Follow the instructions on your host PC and mobile computer screen until installation is complete.



8. After completing the installation, disconnect the mobile computer from the serial/Ethernet/USB connection cable/cradle. Soft reset the mobile computer by pushing the reset button.

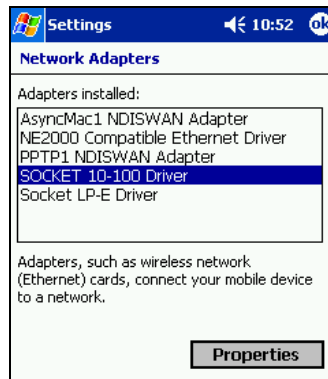
Important! Soft reset your mobile computer after software installation!

STEP 4: Enter Network Settings

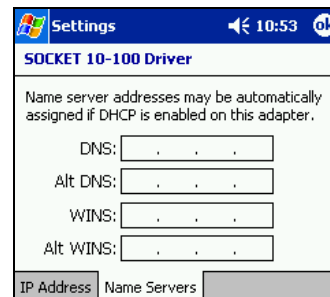
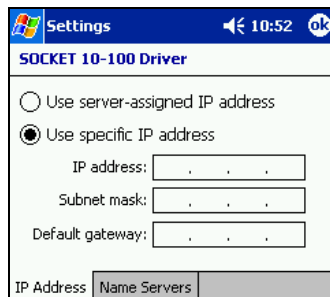
You will need your completed Network Information Form for this step.

Pocket PC 2000/2002

1. Pocket PC 2000: Go to **Start | Settings | Connections | Network**.
Pocket PC 2002: Go to **Start | Settings | Connections | Network Adapters**.
2. In the **Network Connections** screen, select **Socket 10-100 Driver**. On a Pocket PC 2002, tap on the **Properties** button.



3. In the next screens, enter your network settings from the Network Information Form. If needed, tap on the **Name Servers** tab to enter DNS and WINS addresses.



If your LAN supports DHCP, select **Use server-assigned IP address**. If needed, tap on the **Name Servers** tab to enter DNS and WINS addresses.

*Note: If using a static IP address, you may need to enter the host computer's IP address in the **WINS** field to use ActiveSync.*

When done, tap **ok**.

Important! If you forget to tap ok, your settings will not take effect!

4. Soft reset your Pocket PC by pressing the reset button.

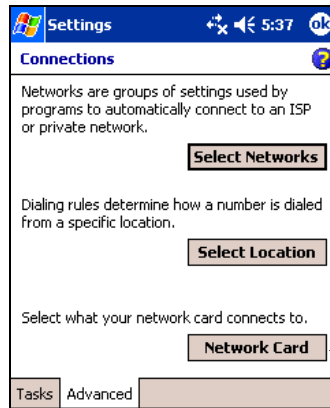
Pocket PC 2003

1. Go to **Start | Settings | Connections | Connections**.



Connections

2. Tap on the **Advanced** tab. Tap on the **Network Card** button at the bottom of the screen.



Tap on the **Network Card** button.

3. The **Configure Network Adapters** screen will appear. In the drop-down menu at the top of the screen, select the appropriate option.
 - **The Internet:** For connecting from home and/or via an ISP
 - **Work:** For connecting to a private network, such as at work, or a proxy network.



Note: If you are connecting to a proxy or secure network, refer to your Pocket PC 2003 documentation for configuration information.

4. If you DO NOT need to enter any IP addresses, (i.e., your network uses DHCP), tap **ok**. You are now ready to proceed to STEP 3 to connect to a 10/100 Mbps LAN and insert the card.

5. If you DO need to enter any IP addresses, tap on **Socket 10-100 Driver**.
6. In the next screens, enter your network settings from the Network Information Form. Select **Use specific IP address** to enter any necessary IP addresses.

If needed, tap on the **Name Servers** tab to enter DNS and WINS addresses.

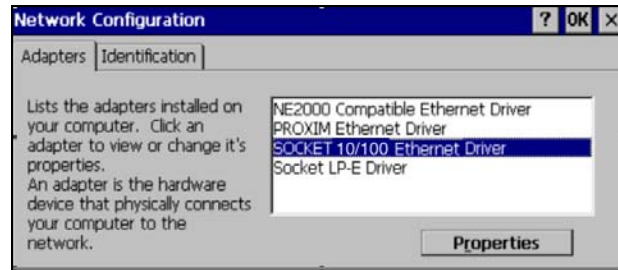
*Note: If using a static IP address, you may need to enter the host computer's IP address in the **WINS** field to use ActiveSync.*

7. When you have finished entering settings, tap **ok**.
- Important! If you forget to tap ok, your settings will not take effect!**
8. A screen will report that the new settings will take effect when you next insert the network card. Tap **ok**.
9. Soft reset your Pocket PC by pressing the reset button.

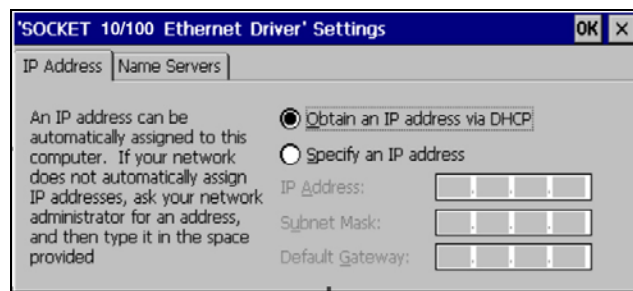
Note: Do not soft reset a Pocket PC 2003 when a Socket card is inserted, or errors may occur in application(s) using the card. If errors occur, remove the card and soft reset the device. Wait for the device reset to finish before you re-insert the card.

Handheld PC Pros, Handheld PC 2000s and Pen Tablets

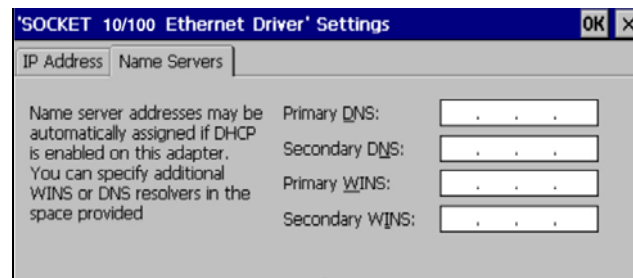
1. Go to **Start | Settings | Control Panel | Network**.
2. In the next screen, select **Socket 10-100 Ethernet Driver**. Tap **Properties**.



3. The **IP Address** screen will appear. Following your completed Network Information Form, enter the appropriate settings for your network.



4. If needed, click on the **Name Servers** tab to enter any necessary DNS or WINS addresses.



*Note: If using a static IP address, you may need to enter the host computer's IP address in the **Primary WINS** field to use ActiveSync.*

5. When done entering all your network settings, tap **OK**.

Warning! Your new settings will not take effect if you forget to tap OK!

STEP 5: Connect to a LAN and Insert the Card

1. If you have not done so already, soft reset your mobile computer.

If you are using a Pocket PC 2003, do not soft reset the device when a Socket card is inserted, or errors may occur in application(s) using the card.

2. Plug the connector into a LAN port, then insert the 10/100 Ethernet CF Card into your mobile computer. Make sure the card is right-side up, with the green label on top.

Note: If inserting a CompactFlash card into a PC Card slot, use a PC Card adapter.



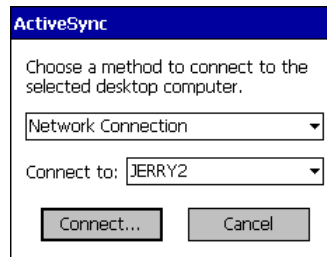
If you would like to check if you have a good connection, do the following:

- When ActiveSync automatically launches, close the program.
- Check to see if the Link LED has a steady green light to denote a good connection. If the TX or RX LED is blinking, your device is communicating with your network.
- Verify that the connection has a valid IP address for your network.
 - a) Open the Socket 10/100 applet.
Pocket PC: Tap **Start | Settings | Connections | Socket 10/100**
HPC: Tap **Start | Settings | Control Panel | Socket 10/100**
 - b) In the **IP Info** screen, check the **IP Address** field. If your network uses a static IP address, make sure it appears correctly. If your network uses DHCP, make sure the IP address is within the valid range for your network. Consult with your network administrator.
- Test you web access. Start Internet Explorer. Enter a URL and test to see if it appears correctly. If you cannot enter a URL because the address bar does not appear, tap **View** and select **Address Bar**.

STEP 6: Use ActiveSync via a Network

Pocket PC 2000 or Handheld PC

1. If you installed Socket's software, after you insert the 10/100 Ethernet CF Card and connect to a LAN, ActiveSync automatically launches:



Important!

You must have a partnership with a host PC to use ActiveSync!

Note: To access ActiveSync any time, go to

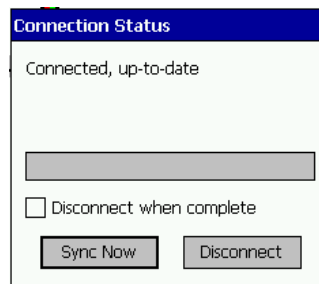
*Pocket PC 2000: **Start | Programs | Connections | ActiveSync.***

*HPC: **Start | Programs | Communication | ActiveSync***

2. Select **Network Connection** in the top drop-down list. Choose the desktop computer you want to connect to in the bottom drop-down list, then tap **Connect**.

*Note: If **Network Connection** does not appear in the drop-down list, then ActiveSync launched before your mobile computer had enough time to recognize the card. You must increase how long your mobile computer waits before auto-launching ActiveSync. For instructions, please refer to the section on using the control panel applet at the end of this chapter.*

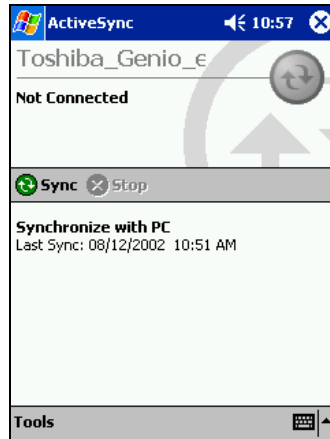
3. The mobile computer will start synchronizing. The **Connection Status** screen will report when synchronization is done.



4. To stop ActiveSync, tap on the **Disconnect** button. You will still have network access, but you will not be able to synchronize data.

Pocket PC 2002

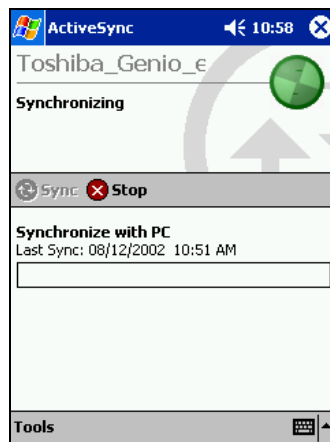
1. If you installed Socket's software, after you insert the 10/100 Ethernet CF Card and connect to a LAN, ActiveSync automatically launches.



*Note: To access ActiveSync at any time, go to **Start | ActiveSync**.*

Note: You must have a partnership with a host PC to use ActiveSync!

2. Tap on **Sync**. The Pocket PC will begin to synchronize data with your host PC.

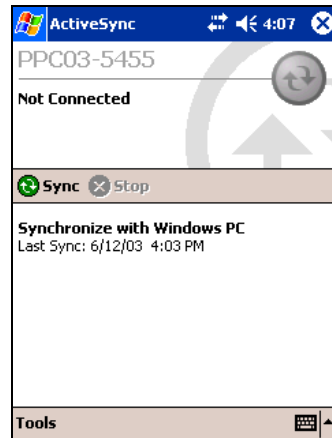


*Note: If ActiveSync starts and stops, go to **Tools | Options | Mobile Schedule** and uncheck the **Sync outgoing items as they are sent** box.*

3. To stop ActiveSync, tap on **Stop**. You will still have network access, but you will not be able to synchronize data between your mobile computer and host PC.

Pocket PC 2003

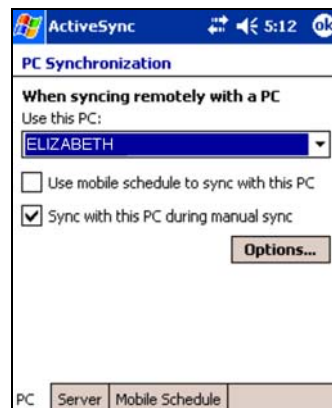
1. If you installed Socket's software, after you insert the 10/100 Ethernet Card and connect to a LAN, ActiveSync automatically launches.



*Note: To access ActiveSync at any time, go to: **Start | ActiveSync:***

Note: In order to use ActiveSync, you must have previously created a partnership between the mobile computer and host PC!

2. Tap **Tools | Options**. In the **PC** screen, check **Sync with this PC during manual sync**. Tap **ok**.



3. In the main ActiveSync screen, tap on **Sync**. The Pocket PC will begin to synchronize data with your host PC.
4. To stop ActiveSync, tap **Stop**. You will still have network access, but you will not be able to synchronize data between your mobile computer and host PC.

OPTIONAL: Use the Control Panel Applet

The control panel applet lets you control several unique features of Socket's enhanced Ethernet software, including:

- Configuring the auto-launch program
- Viewing the IP info for your connection

Accessing the Applet

Launch the control panel applet by doing the following:

Pocket PCs: Go to **Start | Settings | Connections | Socket 10/100**.

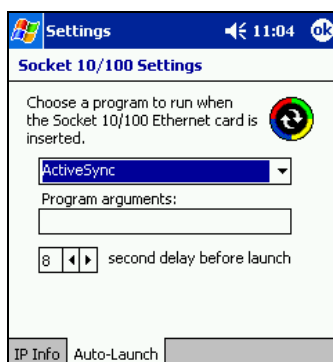
Handheld PCs: Go to **Start | Settings | Control Panel | Socket 10/100**.



Note: If the Socket 10/100 icon does not appear, soft reset your mobile computer by pressing the reset button.

Configuring Auto-Launch

1. Tap on **Auto-Launch** tab to specify what program to auto-launch whenever you insert the 10/100 Ethernet CF Card. By default, ActiveSync will auto-launch. Use the drop list to select another program (e.g., Pocket Internet Explorer) to auto-launch, if desired.



2. You can use the **Program arguments** field for custom applications that require program arguments to launch.
3. The **second delay before launch** field lets you choose how long your mobile computer will wait before auto-launching a program. Most devices have a default of 10 seconds. Unless your network is slow, or if memory is low, 10 seconds should be long enough to recognize the 10/100 Ethernet CF Card.

Viewing IP Info

Tap on the **IP Info** tab at the bottom of the screen to view your network's IP addresses. You can also see if your address is static or assigned by DHCP.



Note: You can only use the IP Info screen to view network information. You cannot modify any of the settings.

Appendix A Specifications

Physical Characteristics:

CompactFlash Card:

Dimensions:	3.44 x 1.69 x 0.13 in (88 x 42.8 x 3.3 mm)
Mass:	30 g

Power Consumption (supplied by PC host):

Typical at 100 Mbps:	140 mA
Typical at 10 Mbps:	80 mA

Interface Standards:

CompactFlash Interface:	CompactFlash I/O, Type I
With PC Card Adapter*:	PCMCIA, Type II

Operating System Support:

Windows CE 2.11	For Handheld PC Pros and pen tablets
	Windows CE 3.0 For Pocket PC
	2000/2002 and HPC 2000
Windows CE 4.2	For Pocket PC 2003

LED Indicators:

Link:	(Green, On) Good Link
100:	(Orange, On) 100 MB Mode
Full:	(Green, On) Full Duplex
RX:	(Green, Blink) Receive
COL:	(Orange, On) Collision
TX:	(Green, Blink) Transmit

Media Coupler Support:

UTP (RJ45)

Certification/Compliance:

VCCI:	Class B
FCC:	Part 15, Class B
CE:	EN55024:1998
C-Tick:	s.182 - Radio Communications Act 1992
CompactFlash:	CompactFlash Spec. 2.0

Warranty:

Three years

* Available separately at www.esend.com/socket.

Appendix B Two-Node Networking

Overview

To establish an instant Ethernet network between a Windows CE-based mobile computer and a Windows notebook, you don't need an Ethernet hub. All you need is Socket's Crossover Connection Kit — which you can request for FREE if you register your 10/100 Ethernet CF Card. To register online, please visit: www.socketcom.com/prodreg



*Hubless network with Socket 10/100 Ethernet CF Card and
Socket Low Power Ethernet CF Card*

Socket's Crossover Connection Kit contains three items:



Crossover Connector



2 RJ-45 CAT5 cables

Required Equipment

To set up a hubless network between a Windows CE-based mobile computer and a Windows notebook, you will need the following equipment:

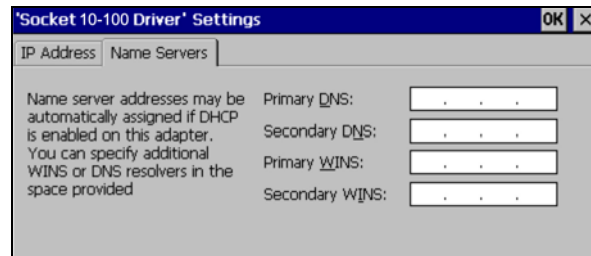
- 10/100 Ethernet CF Card (with PC Card adapter if using PC Card slot)
- Ethernet connector for your notebook computer*
- 1 Crossover Connector
- 2 RJ-45 CAT5 cables

*Some notebooks have a built-in Ethernet connector. If not, you can add an Ethernet adapter with Socket's Low Power Ethernet Card. For more information, please visit: www.socketcom.com/product/ethernet_10100.asp

Configuring a Two-Node Network

The network you are about to create is a static peer-to-peer network. Please follow these guidelines while creating your network:

- The Windows CE-based mobile computer and Windows notebook must each be assigned their own IP address. We recommend using a private IP range from 192.168.0.1 to 192.168.0.255.
- After setting up the IP addresses for both devices from the range suggested above, enter the notebook's IP address in the **Primary WINS** field of the **Name Servers** screen. Refer to Chapter 2, "Setup," for directions on how to access the **Name Servers** screen.



- After entering your notebook's IP address, you must reboot the notebook for the new settings to take effect.
- After changing your Windows CE-based mobile computer's IP settings, you must remove the 10/100 Ethernet CF Card and re-insert it for the new settings to take effect.
- After setup is complete, connect the Windows CE-based mobile computer to the notebook. You are now ready to use ActiveSync. For instructions, please refer to the section, "Use ActiveSync via a Network," in Chapter 2, "Setup."

Appendix C Troubleshooting

SYMPTOM:

- *Network Connection* is not listed as an option in ActiveSync.

POSSIBLE REASONS	SOLUTION
Your Windows CE-based mobile computer is using DHCP, but it cannot access any IP addresses. This may be because your mobile computer has problems communicating with your network's DHCP server, or because your DHCP server is not available.	Try removing the 10/100 Ethernet CF Card and reinserting it. If ActiveSync still shows no network connection, wait for a few minutes. If you see the message "Unable to contact DHCP server, using cached information," the 10/100 Ethernet CF Card is probably working properly. If after a few minutes, the problem persists, ask your network administrator to verify that the DHCP server is working properly.
Your auto-launch program starts too fast, and your mobile computer does not have enough time to connect to your network.	Increase the second delay before launch setting in the Auto-Launch tab of the 10/100 Ethernet CF Card Applet. If you have to set the delay to longer than 20 seconds, you should consult your network administrator.
Your server does not have WINS services enabled.	Enter the IP address of the host computer in the Primary WINS: field in order to use ActiveSync.

SYMPTOM:

- My new IP addresses do not work.

POSSIBLE REASON	SOLUTION
After entering the IP addresses for your 10/100 Ethernet CF Card, you forgot to tap/click OK .	Re-enter the IP addresses. When done, tap/click OK.

SYMPTOM:

- I get a message reporting *DHCP Lease Has Expired*.

POSSIBLE REASON	SOLUTION
You are using DHCP and have not used your 10/100 Ethernet CF Card for a while.	Tap OK and continue.

SYMPTOM:

- My DHCP server keeps reporting that it is busy, and I cannot connect to my LAN.

POSSIBLE REASON	SOLUTION
Your network DHCP Server ran out of IP addresses.	Inform your network administrator.

SYMPTOM:

- I get a message that says *Error Starting Program, Required .dll File Not Found*.

POSSIBLE REASONS	SOLUTION
You tried to install the software without first establishing a Partnership or Guest relationship between your Windows CE-based mobile computer and your host PC.	Make an active partnership between your mobile computer and a host PC through the serial/USB connection cable/cradle. Retry installing the software.

Appendix D Support Resources

Technical Support

If you have trouble installing or using the 10/100 Ethernet CF Card, you can contact Socket's technical support department for help.

IMPORTANT! To obtain technical support for your product, you must first register your product online at www.socketcom.com/prodreg.

Once you have registered your product, you can reach Socket's technical support department by doing either of the following:

- Submit an email inquiry through the online support system. After you register your product, you will be presented with an option to 'submit a problem'. Click on this option to follow the online process to submit an email request for technical support.

This is the fastest way to obtain technical support and has the quickest turnaround time. Registered customers who submit a question online will receive priority service. If we are unable to resolve your support inquiry via email, we can arrange for a technical support representative to call you at a specific time.

- Call our technical support line at 510-744-2720 to leave a message for a technical support representative to return your call at a specific time and number. When you call, please leave your email address that you registered under, a phone number and time that you can be reached at, and a detailed description of your problem.

After you register your product, you can use the product registration webpage to submit an email inquiry directly to a technical support specialist for priority service, view product information, register additional products, view a complete database of FAQs and view a history of technical support activity for previous support issues.

Users' Forum

If you would like to discuss the Socket 10/100 Ethernet CF Card with other users, visit Socket's users' forum at: www.socketforum.com

Important! Socket does NOT provide technical support via the Users' forum!

Note: Socket may, but is not obligated to, monitor or review any areas on the Site where users transmit or post Communications or communicate solely with each other, including but not limited to the user forum, and the content of any such Communications. Socket, however, will have no liability related to the content of any such Communications, whether or not arising under the laws of copyright, libel, privacy, obscenity, or otherwise. Socket retains the right to remove messages that include any material Socket deems abusive, defamatory, obscene or otherwise unacceptable.

Please refrain from disassembling the CompactFlash Card. Disassembly of this device will void the product warranty.

Limited Warranty

Socket Communications Incorporated (Socket) warrants this product against defects in material and workmanship, under normal use and service, for the following periods from the date of purchase:

Plug-in Card: Three years

Incompatibility is not a defect covered by Socket's warranty. During the warranty period, Socket will, at its option, repair or replace the defective product at no charge when furnished with proof of retail purchase, provided that you deliver the product to Socket or to an authorized Socket Service Center.

The returned product must be accompanied by a return material authorization (RMA) number issued by Socket or by Socket's Authorized Service Center. If you ship the product, you must use the original container or equivalent and you must pay the shipping charges to Socket. Socket will pay shipping charges back to any location in the contiguous United States. This warranty applies only to the original retail purchaser and is not transferable.

Socket may, at its option, replace or repair the product with new or reconditioned parts and the returned product becomes Socket's property. Socket warrants the repaired or replaced products to be free from defects in material or workmanship for ninety (90) days after the return shipping date, or for the duration of the original warranty period, whichever is greater.

This warranty does not cover the replacement of products damaged by abuse, accident, misuse or misapplication, nor as a result of service or modification other than by Socket.

SOCKET IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING DAMAGE TO PROPERTY AND, TO THE EXTENT PERMITTED BY LAW, DAMAGES FOR PERSONAL INJURY. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Some states do not allow limitation of implied warranties, or the exclusion or limitation of incidental or consequential damages, so that the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

This product may contain fully tested, recycled parts, warranted as if new.

For warranty information, phone (510) 744-2700.

Limited Software Warranty

LIMITED WARRANTY. SOCKET warrants that the original disk or CD ROM is free from defects for 90 days from the date of delivery of the SOFTWARE.

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Socket Communications requests that you refrain from any applications of the Socket 10/100 Ethernet CF Card that are not described in this manual. Socket Communications also requests that you refrain from disassembling the CompactFlash Card. Disassembly of this device will void the product warranty.

You can track new product releases, software updates and technical bulletins by visiting Socket's website at www.socketcom.com.

Regulatory Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. This equipment is also CE EN55024:1998 and C-TICK compliant. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his or her own expense.

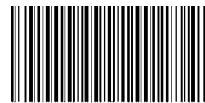
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user may try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna of the radio or television.
- Increase the distance separating the equipment and the receiver.
- Connect the equipment to an outlet on a different branch circuit than that of the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

The user may find the following booklet helpful:

How to Identify and Resolve Radio-TV Interference Problems

This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402.



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